



# Network Video Recorder ND8401



VAST Inside • HD Local Display • Full Integration  
with Most VIVOTEK Network Cameras

VIVOTEK ND8401 is a 16-CH Network Video Recorder designed for sophisticated recording applications. The unit is equipped with an Intel® Dual-core Processor with maximum recording throughput at a robust 96 Mbps. RAID 0/1/5/10 is supported with four HDDs, with an external eSATA port for additional expansion. Like VIVOTEK NVR ND8301, a local display output port is available with Full HD resolution (1920x1080), eliminating the need for a separate PC to view video from the unit. Setup of parameters such as IP address, HDD to logical volumes, and basic camera configuration can easily be performed with the setup wizard, making the ND8401 the easiest NVR to use yet. When connecting ND8401 to more than one of the same model of VIVOTEK camera, the "Shepherd" program can be used to duplicate the configuration to multiple cameras.

VIVOTEK's professional software VAST is installed in ND8401 with performance tuning, allowing for simple and effective management of a surveillance system using the LiveClient and Playback programs. As VIVOTEK's camera features are fully integrated into VAST, cutting-edge technologies such as Activity Adaptive Recording can be utilized to conserve bandwidth and optimize recording. A CMS server running VAST software can also directly control the ND8401, and compatibility with the iViewer application allows for remote access to the ND8401 on handheld devices. By integrating all of the components together using VIVOTEK's ND8401, network cameras, VAST and iViewer software, users can realize a fully-featured and robust next-generation surveillance system.

## Features

### Hardware

- Windows 7 Embedded
- Dual-Core Intel® Processor
- Standalone Desktop NVR Design
- Full HD Local Display
- RAID 0, 1, 5, 10 Storage Solution
- 4 x HDD Tray, Max. 16TB
- 2 x Gigabit RJ45 Ethernet Port
- 6 x USB Port
- External eSATA Interface
- Size: 204 mm (W) x 330 mm (D) x 215 mm (H)

### Software

- Easy Installation and Configuration (Shepherd/Setup Wizard)
- VAST Inside (LiveClient/Playback)
- 16-CH Live View & 1-CH Playback
- H.264, MPEG-4 and MJPEG
- Multiple Recording Types & Event Trigger Sources
- Multiple Video Search Modes
- E-map
- Supported by VAST Central Management Software
- Full Integration with Most VIVOTEK Network Cameras
- VIVOTEK iViewer Support (iOS/Android)

\*The VIVOTEK VAST Central Management Software is not included in the package.



## Technical Specifications

### System

CPU: Dual-core Intel® processor  
RAM: 4GB DDRIII  
OS: Windows 7 embedded  
Power Restoration: System restart automatically after Power Recovery  
System Recovery: Recover operating system after restart every time

### Channels

16-CH selectable

### Storage

4 x 3.5" HDD, up to 16TB  
4 x hot-swappable & lockable hard disk tray  
HDD S.M.A.R.T.(Self-Monitoring Analysis and Reporting Technology)  
RAID 0, 1, 5, 10  
External eSATA storage

### Connectors

1 x VGA for Full HD local display  
2 x Gigabit RJ45 Ethernet port  
6 x USB 2.0 port  
1 x RS232  
1 x eSATA  
1 x MIC in and line in  
1 x line out

### Camera Compatibility

Full integration with most VIVOTEK network cameras  
Integration with ONVIF network cameras (ONVIF version 2.2 compatible)

### Easy Setup

Setup Wizard for network/HDD/camera easy setup  
IW2 for search internal camera  
Shepherd for duplicating the camera's configuration to multiple cameras

### Networking

IPv4, TCP/IP, HTTP, RTSP/RTP/RTCP, IGMP, SMTP, DHCP, NTP, DNS, DDNS

### Recording

Throughput: max. 96 Mbps  
Recording policy: scheduled (event/continuous modes) and manual recording  
Video compression: H.264/MJPEG/MPEG-4  
Audio compression: AMR/G.711/G.726/AAC  
Resolution: Up to 5-Megapixel recording  
Format: 3GP  
Auto recycling: buffer size setting, time setting  
Activity adaptive recording

### Export

Format: AVI/3GPP/EXE

### Local LiveClient

Display layout: 1X1, 2X2, 3X3, 4X4, 1+5, 1+12  
Rotate  
Snapshot  
Two way audio control  
PiP video control  
Stream selectable  
Set DO control  
Video enhancement  
Pan/Tilt/Zoom control of VIVOTEK cameras  
Preset location  
Auto pan/patrol  
Event popup windows  
Instant event notification  
Display performance:  
MJPEG: 16-CH, 30 fps @ CIF  
MPEG4: 16-CH, 30 fps @ CIF or 2-CH, 30 fps @ 1080P  
H.264: 7-CH, 30 fps @ CIF or 1-CH, 30 fps @ 1080P  
Auto stream size

### Local Playback

Display layout: 1X1  
Playback mode: play, pause, stop, next/frame, next/previous, speed control  
Search mode: browsing, time, event, bookmark  
Graphical timeline  
Snapshot  
Bookmark design  
PiP video control  
Video enhancement  
Log viewer

### Web Liveview

Display layout: 1X1, 2X2, 3X3, 4X4, 1+5, 1+12  
Snapshot  
Pan/Tilt/Zoom control of VIVOTEK cameras  
Simple camera and recording settings

### Web Playback

Display layout: 1X1  
Playback mode: play, pause, stop, speed control  
Search mode: browsing, event  
Graphical timeline

### Event/Action Management

Trigger source: motion, temperature, tampering, DI/O, IR, PIR, IVA, video lost, recording error, recording status, substation connection status, storage connection status, storage capacity status, license status, network status & memory status  
Actions: email, start recording, move to the preset position, set DO, GSM short message & send CGI command

### Security

5 levels of user roles  
Multi-level user access with password protection  
Device buzzer notification (HDD/network)

### Backup

Manual/scheduled backup

### Mobile APP Support

VIVOTEK iViewer (iOS/Android)

### Dimension

204 mm (W) x 330 mm (D) x 215 mm (H)

### Weight

Net: 5.24 kg (without HDD)

### LED Indicator

1 x Power status  
1 x HDD status

### Power

Input: AC 100-240 V, 50-60 Hz  
Power consumption: max. 58 W

### Approvals

CE, FCC Class B, VCCI, C-Tick

### Operating Environments

Temperature: 0°C ~ 40°C  
Humidity: 20%~95% RH

### Warranty

24 months

### Language

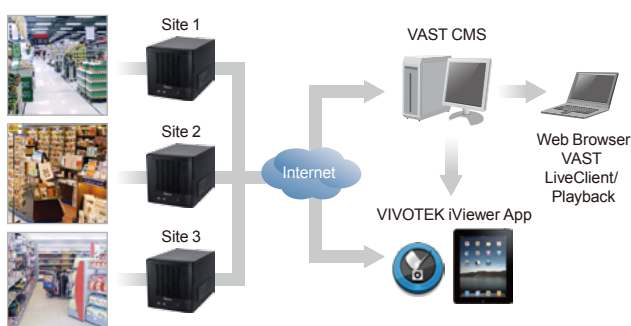
English, French, German, Italian, Spanish, Traditional Chinese, Simplified Chinese, Japanese, Portuguese, Czech

### Included Accessories

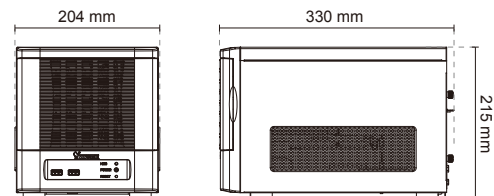
CD content: user's manual, quick installation guide, installation wizard 2, LiveClient (Web), Playback (Web)  
Others: quick installation guide, warranty card, power cord

## Application

### Multi-site Chain Stores



## Dimensions



### Part No.

ND8401, USA	100091100G	ND8401, UKB	100091130G
ND8401, AUN	100091110G	ND8401, Mexico	100091200G
ND8401, EU	100091120G		

All specifications are subject to change without notice. Copyright © VIVOTEK INC. All rights reserved.

Distributed by:



VIVOTEK INC.  
6F, No.192, Lien-Cheng Rd., Chung-Ho,  
New Taipei City, 235, Taiwan, R.O.C.  
T: +886-2-82455282 F: +886-2-82455532  
E: sales@vivotek.com

VIVOTEK USA  
2050 Ringwood Avenue,  
San Jose, CA 95131  
T: 408-773-8686 F: 408-773-8298  
E: salesusa@vivotek.com

VIVOTEK Europe  
Randstad 22-133, 1316BW Almere,  
The Netherlands  
E: saleseurope@vivotek.com

Ver 1.4